

In small plants the ashes from the boiler ash hoppers can be periodically emptied into ash wagons arranged to run on a narrow-gauge railway under the ash hopper doors. After quenching the ashes with water, the wagons can be pushed along to a bucket ash elevator for lifting the ash into an ash storage bunker. Such an arrangement is shown more or less diagrammatically in fig. 20, in which the ashes from the boiler ash hoppers A are

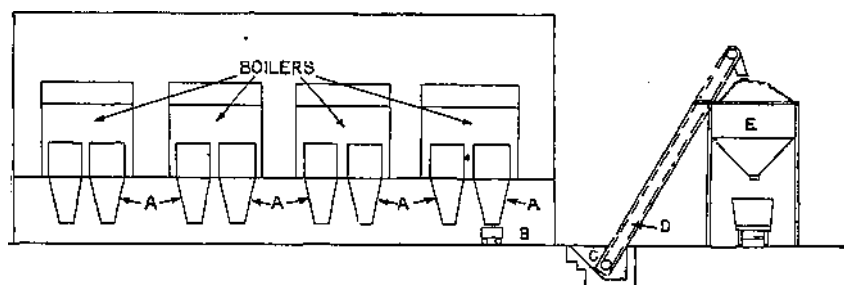


Fig. 20.—Typical Arrangement of Ash Handling Plant with Ash Wagons and Bucket Elevator

discharged into travelling narrow-gauge tipping ash wagons B, whence they are tipped at c into the boot of a bucket elevator D, which elevates the ashes to the storage bunker E, from which the ashes may be removed by road or rail.

An alternative arrangement is shown in fig. 20 A, in which provision is made to run the ash wagons B into an electric hoist c, which lifts the

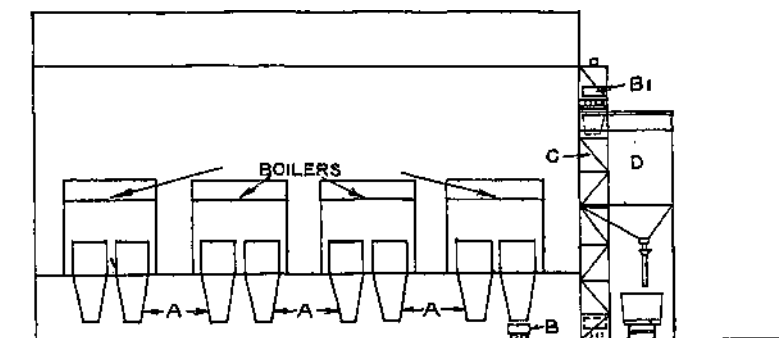


Fig. 20 A.—Typical Arrangement of Ash Handling Plant with Ash Wagons and Ash Wagon Hoist

complete ash wagon up to B₁s and tips

it into the ash storage bunker D. In larger plants the ashes may be handled direct from the ash hoppers under the boilers by gravity bucket elevators or by tray conveyors, and thereby delivered into the ash storage bunker.

In certain cases it is convenient to arrange the returning length of a gravity bucket coal elevator chain to receive the ashes direct from the boilers and discharge them into the ash storage bunker, as in fig. 21.

In large stations, however, the Weight of ash to be dealt with per day